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Term:

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Search History

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L3	5282273.pn.	1	L3
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☐ 1. Document ID: US 6292889 B1

L2: Entry 1 of 6 File: USPT Sep 18, 2001

DOCUMENT-IDENTIFIER: US 6292889 B1
TITLE: Distributed computer network including hierarchical resource information structure and related method of distributing resources

Brief Summary Text (17):
U.S. Pat. No. 5,282,273 issued to Ushio, et al., for example, describes an Enterprise Information System Having Three Level Hierarcy Of Data Bases And Communication Paths. The '273 patent discusses problems that arise from efforts aimed at the integrated management of information in an enterprise. It teaches the use of three types of data bases and three types of communication paths to manage the enterprise. This Hierarchy provides an example of a possible architecture for an earlier enterprise-wide information network.

Current US Cross Reference Classification (1):
709/220

Current US Cross Reference Classification (2):
709/221

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Desc | Image

☐ 2. Document ID: US 6128644 A

L2: Entry 2 of 6 File: USPT Oct 3, 2000

DOCUMENT-IDENTIFIER: US 6128644 A
TITLE: Load distribution system for distributing load among plurality of servers on www system

Brief Summary Text (5):
With the development of the Internet, "WWW(World Wide Web) browsers", which are client applications for accessing Hypertext Transfer Protocol (HTTP) files on WWW servers, have become common on many computers. Further, his comparatively recent WWW system is particularly excellent at its main function of fetching a HTML (Hyper Text Markup Language) document and displaying the content of the same. As seen in the case of an intra-company network (intranet), internet communication technology is increasingly being utilized in internal enterprise information systems for sharing information and supporting the business and services. Moreover, an attempt has been made to implement functions equivalent to those of a conventional client-server system using WWW system technology. However, in conventional implementations, the WWW system has fewer functions than the client-server system in many respects. For this reason, the following measures are taken to solve the problems that relate to specific uses of the WWW system.

Current US Original Classification (1):
709/203

Current US Cross Reference Classification (1):
709/201

Current US Cross Reference Classification (2):
709/223

Current US Cross Reference Classification (3):
709/227

Current US Cross Reference Classification (4):
709/228

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Desc | Image

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☐ 3. Document ID: US 6092102 A

L2: Entry 3 of 6 File: USPT Jul 18, 2000

DOCUMENT-IDENTIFIER: US 6092102 A
TITLE: System and method for notifying users about information or events of an enterprise

Current US Cross Reference Classification (3):
709/224

CLAIMS:

44. A system for notifying users about events of an enterprise having information, said system comprising:

event monitoring means employing the information of said enterprise for determining an event and generating a message having one of a plurality of types;

a plurality of communication channels for communicating the message; and

notifier means cooperating with said event monitoring means for selecting zero or at least one of said communication channels to communicate the message as a function of a user's preference for the type of the message and said communication channels to communicate the message.

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

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☐ 4. Document ID: US 5581764 A

L2: Entry 4 of 6 File: USPT Dec 3, 1996

DOCUMENT-IDENTIFIER: US 5581764 A
TITLE: Distributed computer network including hierarchical resource information structure and related method of distributing resources

Brief Summary Text (17):
U.S. Pat. No. 5,282,273 issued to Ushio, et al., for example, describes an Enterprise Information System Having Three Level Hierarchy Of Data Bases And Communication Paths. The '273 patent discusses problems that arise from efforts aimed at the integrated management of information in an enterprise. It teaches the use of three types of data bases and three types of communication paths to manage the enterprise. This Hierarchy provides an example of a possible architecture for an earlier enterprise-wide information network.

Current US Original Classification (1):
709/223

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments KWIC | Draw Desc | Image

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☐ 5. Document ID: US 5369570 A

L2: Entry 5 of 6 File: USPT Nov 29, 1994

DOCUMENT-IDENTIFIER: US 5369570 A
TITLE: Method and system for continuous integrated resource management

Detailed Description Text (23):
FIG. 2 illustrates the major component parts of a preferred embodiment of a system for continuous integrated resource management 201. This system interacts with external enterprise information systems 214 through command primitive messages described more fully herein. Sources of information in 214 that describe activities relevant to resource management, send command primitive messages 215 to one or more resource engines 203. The router component part 209 assures message integrity, and forwards or returns messages to other routers 208 and external systems 214. Messages describe resource requirements, products and process characteristics, dependencies, and status.

Detailed Description Text (27):
1. The action control, resource engine, and enterprise information system agents of the system.

Current US Cross Reference Classification (2):
709/226

Current US Cross Reference Classification (3):
709/229

Current US Cross Reference Classification (4):
709/244

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments KWIC | Draw Desc | Image

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☐ 6. Document ID: US 5282273 A

L2: Entry 6 of 6 File: USPT Jan 25, 1994

DOCUMENT-IDENTIFIER: US 5282273 A
TITLE: Enterprise information system having three level hierarchy of data bases and

communication paths

Abstract Text (1):
An enterprise information system in which personal work stations, personal data bases which are held in the work stations, a processor only for use in a division, and intradivision data and interdivision data which are held in the processor are provided. An informal communication path directly connects the work stations in an enterprise among the divisions and an intradivision formal communication path mutually connects the work station in the division to the processor to hold the intradivision data base or the interdivision data base corresponding to the division or both of them. An interdivision formal communication path mutually connects the processors to hold the interdivision data bases. The intradivision data base can only be accessed by the intradivision formal communication path of the division.

Brief Summary Text (2):
The present invention relates to an enterprise information system and, more particularly, to an enterprise information system which is suitable to manage flows of information between divisions in an enterprise, between an organization and a person in charge, and the like.

Brief Summary Text (3):
In a conventional enterprise information system, an application system is individually constructed for every division. However, in recent years, there is a tendency of integratedly managing various information in enterprise. As one of the measures, there is a tendency of connecting work stations by a single communication path.

Brief Summary Text (8):
On the other hand, in the conventional technique described above, no consideration is paid to the fact that in the actual activities of the enterprise, the levels and necessary authorities of approvers regarding the transmission and reception of data in one division and the transmission and reception of data between divisions differ. Both of them are equivalently processed. If the above technique is applied to the enterprise information system, the files in a division can be illegally seen or the document can be sent to another divisions without obtaining an approval of the boss in the division. In order to prevent such a wrong situation, a complicated construction for a security protection and the like must be individually formed.

Brief Summary Text (9):
The present invention is made in consideration of the above circumstances and it is an object of the invention to solve the above problems in the conventional technique and to provide an enterprise information system which is suitable to effectively use a fundamental originality of each division and to keep an integration as an organization.

Brief Summary Text (10):
More practically speaking, another object of the invention is to provide an enterprise information system having characteristics (information amount, emergency degree, and the like) of various data flowing on communication path constructing the system and a system construction suitable for the activities of the enterprise.

Brief Summary Text (11):
The above objects of the invention are accomplished by an enterprise information system having work stations, data bases, processors to keep the data bases, and communication paths, wherein the system has: three kinds of data bases comprising a first data base which is used to store information only for use in each of the work stations and has been held in the work station, a second data base which is used to store information which is commonly used by the work stations in a certain division in the enterprise, and a third data base which is used to store information which is transmitted and received between divisions; and three kinds of communication paths comprising a first communication path for directly connecting the work stations among divisions in the enterprise, a second communication path for mutually connecting the work station in a certain division in the enterprise with the second or third data base corresponding to the division or a processor to hold both of the

second and third data bases, and a third communication path for mutually connecting the processors to hold the third data bases corresponding to the divisions in the enterprise.

Brief Summary Text (12):
In the enterprise information system according to the present invention, the following three kinds of data bases are first constructed.

Brief Summary Text (42):
In the present invention, an enterprise information system in the enterprise activities is constructed by using the three kinds of data bases and the three kinds of communication paths and is assigned in correspondence to the three kinds of information and the three kinds of communications in the enterprise activities. Due to this, the intradivision data can be accessed by only the intradivision formal communication path in the relevant division and is not illegally accessed by other divisions. On the other hand, only the information in the interdivision data base can be sent in the interdivision formal communication and the information which is not authorized is not illegally transmitted.

Drawing Description Text (2):
FIG. 1 is a constructional diagram of an enterprise information system as an embodiment of the

Drawing Description Text (5):
FIG. 8 is a constructional diagram of an enterprise information system as another embodiment of the present invention;

Drawing Description Text (8):
FIG. 12 is a constructional diagram of an enterprise information system as further another embodiment of the present invention;

Detailed Description Text (3):
FIG. 1 is a constructional diagram of an enterprise information system according to an embodiment of the present invention. In the diagram, reference numeral 1a denotes a personal data base in which an electronic mail box is stored. The personal data base 1a is held in a work station 7a. Reference numeral 2a denotes an intradivision data base in which an electronic notice (bulletin) board is stored. The intradivision data base 2a is held in a processor 10a only for use in a division, which will be explained subsequently. Reference numeral 3a denotes an interdivision data base in which stock information is stored. The interdivision data base is held in the processor 10a.

Detailed Description Text (15):
FIG. 8 is a constructional diagram of an enterprise information system according to the second embodiment. In the diagram, reference numeral 1b denotes a personal data base. In a manner similar to the personal data base 1a, an electronic mail box is stored in the personal data base 1b. The personal data base 1b is held in a work station 7b. Reference numeral 2b denotes an intradivision data base. Information peculiar to the division, for instance, in the case of the design division, fundamental numerical values for design are stored in the intradivision data base 2b. The intradivision data base 2b is held in a processor 10b only for use in the division, which will be explained hereinlater. Reference numeral 3b indicates an interdivision data base in which design information which is transmitted and received among divisions is stored in the interdivision data base 3b. The interdivision data base 3b is held in the processor 10b.

Detailed Description Text (25):
FIG. 12 is a constructional diagram of an enterprise information system according to the embodiment. In the diagram, reference numeral 1c denotes a personal data base in which the document which is being made by each person is stored. The personal data base 1c is held in a work station 7c or a privilege work station 8c. Reference numeral 2c denotes an intradivision data base. The document such that the tracing of the document flowing on an interdivision formal communication path 6c and the process of the person in charge of each division were finished and the "decision" of the boss of the division is waited is stored in the intradivision data base 2c. The

intradivision data base 2c is held in the privilege work station 8c, which will be explained hereinafter. As will be described, the operation such that the boss of the division transfers the "decision" waiting document from the intradivision data base 2c to an interdivision data base 3c in the privilege work station 8c corresponds to the ordinary "decision".

Detailed Description Text (38):
As described in detail above, according to the present invention, an enterprise information system includes: three kinds of data bases comprising a first data base which is used to store information only for use in each work station and is head in the work station, a second data base to store the information which is commonly used by the work stations in a certain division of the enterprise, and a third data base to store information which is transmitted and received among the divisions; and three kinds of communication paths comprising a first communication path for directly connecting the work stations in the enterprise among the divisions, a second communication path for mutually connecting the work station in a certain division of the enterprise with a processor to hold the second data base or the third data base corresponding to the division or both of the the second and third data bases, and a third communication path for mutually connecting the processors to hold the third data bases corresponding to the divisions in the enterprise. Therefore, there is a typical advantage such that it is possible to realize an enterprise information system which is suitable to keep a combination as an organization while making the most of the fundamental originality of each division. More practically speaking, an advantage is obtained such that it is possible to realize an enterprise information system having a system construction suitable for the characteristics of various kinds of data flowing on the communication paths constructing the system and the meanings in the activities of the enterprise.

Current US Original Classification (1):
709/218

Current US Cross Reference Classification (1):
709/201

Current US Cross Reference Classification (2):
709/249

CLAIMS:

1. An enterprise information system for an enterprise including a plurality of divisions, said enterprise information system comprising:

a plurality of work stations;

a plurality of processors;

a plurality of data bases controlled by said plurality of work stations and said plurality of processors, said plurality of data bases including a plurality of data bases of a first type each controlled by one of the work stations to store information dedicated to said one of the work stations, a plurality of data bases of a second type, each of said plurality of data bases of said second type corresponding to a respective one of said plurality of divisions of the enterprise, said data bases of said second type each controlled by one of the processors to store information commonly used by one or more of the work stations connected to said one of the processors wherein said one of the processors and said one or more of the work stations belong in said respective one of said plurality of divisions of the enterprise, and a plurality of data bases of a third type, each of said plurality of data bases of said third type corresponding to a respective one of said plurality of divisions of the enterprise, said data bases of the third type controlled by each of the processors to store information which is transmitted and received among a plurality of the divisions; and

a plurality of communication paths including a first type communication path for interconnecting all of the work stations of the enterprise, a plurality of second type communication paths, each of said plurality of second type communication paths

corresponding to a respective one of said plurality of divisions, each of said second type communication paths connecting within the respective one of said plurality of divisions the work stations belonging to the respective division with the processor controlling the second type data base of that division, and a third type communication path, the third type communication path mutually connecting all of the processors controlling said plurality of data bases of the third type, wherein said first, second and third communication paths are different from each other;

wherein said work stations transmit/receive data on the first type data base to/from another work station through said first type communication path and access the second type data base of the processor belonging to the division to which said work station belongs through said second type communication path corresponding to that division; and

wherein said processors transmit/receive data on the third type data base to/from another of said processors through said third type communication path.

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Term	Documents
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